



LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	SERIAL NO. 09/872,381	ATTORNEY DOCKET NO. 2807.2.19
	FILING DATE June 1, 2001	GROUP ART UNIT 2878
	APPLICANT(S): John N. Hait et al.	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/SUBCLASS	FILING DATE
Tw	A1	5,969,834	10/19/1999	Farber et al.	359/110	09/03/1997
Tw	A2	5,978,119	11/02/1999	Giles et al.	359/132	02/18/1997
Tw	A3	6,028,881	02/22/2000	Ackerman et al.	372/75	11/10/1997

NON-PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)
Tw	A4	<i>Understanding Optical Communications</i> , Harry J.R. Dutton, Prentice Hall 1998, Pages 540-546.

EXAMINER <i>Drumg Erian</i>	DATE CONSIDERED <i>5/28/2004</i>
--------------------------------	-------------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Please type a plus sign (+) inside this box → ☐

JUL 23 2002

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/872381
Filing Date	8/2/2001 RECEIVED
First Named Inventor	Hait JUL 29 2002
Group Art Unit	Technology Center 2600
Examiner Name	
Attorney Docket Number	2807.2.19.0

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
<u>TP</u>	A1	4364014		Gray	12-14-1982	
<u>TP</u>	A2	4995690		Islam	02-26-1991	
<u>TP</u>	A3	5264960		Glance	11-23-1993	
<u>TP</u>	A5	5583957		Blow	12-10-1996	
<u>TP</u>	A6	5721637		Simon et al.	02-24-1998	
<u>TP</u>	A7	5940207		Weich et al.	08-17-1999	
<u>TP</u>	A8	5978129		Jourdan et al.	11-02-1999	
<u>TP</u>	A9	5995685		Seino	11-30-1999	
<u>TP</u>	A10	5999283		Roberts et al.	12-07-1999	
<u>TP</u>	A11	6055252		Zhang	04-25-2000	
<u>TP</u>	A12	6014235		Norte	01-11-2000	
<u>TP</u>	A13	6061158		DeLong	05-05-2000	
<u>TP</u>	A14	6091744		Sorin et al.	07-18-2000	
<u>TP</u>	A15	6101027		Lee et al.	08-08-2000	
<u>TP</u>	A16	6125128		Mizrahi	09-26-2000	
<u>TP</u>	A17	6208454		Koren et al.	03-27-2001	

Examiner Signature

Phung Hien

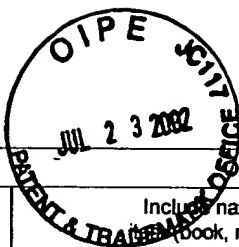
Date Considered

5/28/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



RECEIVED

JUL 28 2002
Technology Center 2600

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
Ty	A18	ANNOVAZZI-LODI et al., <i>Dynamic Behavior and Locking of a Semiconductor Laser Subjected to External Injection</i> , IEEE Journal of Quantum Electronics, Vol. 34, No 12, Dec. 1998; pgs 2350-2357	
Ty	A19	ASGHARI et al., <i>Wavelength Conversion Using Semiconductor Optical Amplifiers</i> , Journal of Lightwave Technology, Vol. 15, No. 7, July 1997; pgs. 1181-1190	
Ty	A20	CLEMENS BAACK, <i>Section on Injection locking</i> , Optical Wideband Transmission Systems, CRC Press, 1986, pgs. 35-53, TK5103.59.0678	
Ty	A21	SUNNY BAINS, <i>SOA Speed-up Uses Optical Assist</i> , Opto Electronics, WDM Solutions, Feb. 2001; pgs. 12 and 20	
Ty	A22	BOCHOVE et al., <i>Line-narrowing and modulation bandwidth of a laser diode with strong optical feedback from a nearby external reflector</i> , Conference: Physics and Simulation of Optoelectronic Devices II, SPIE, Los Angeles, CA, Proceedings of SPIE, Vol. 2146; pgs. 307-316; Jan 24-26, 1994	
Ty	A23	BOUYER et al., <i>Injection Locking of 1.26 um Multimode Semiconductor Lasers</i> , Laboratoire Lasers Ultra-Stables, E.T.C.A., L.P.T.F. Observatoire de Paris; pgs. 378-379	
Ty	A24	CONNELLY, <i>Noise and Signal Distortion at High Bit-Rates in Wavelength Converters based on Nearly Degenerate Four-Wave Mixing in Semiconductor Optical Amplifiers</i> , IEEE Journal and Conference: Proceedings of First International Symposium on Communication Systems and Digital Signal Processing. Sheffield, UK 1998, Vol. 1, pgs. 72-75; April 6-8, 1998	
Ty	A25	DAS et al., <i>Analysis of Optical DEMUX Characteristics Based on Four-Wave Mixing in Semiconductor Optical Amplifiers</i> , Journal of Lightwave Technology, Vol. 19, No. 2, Feb. 2001; pgs. 237-246	
Ty	A26	DEMING et al., <i>Wavelength Conversion Based on Cross-Gain Modulation of ASE Spectrum of SOA</i> , IEEE Photonics Technology Letters, Vol. 12., No. 9, Sep. 2000; pgs. 1222-1224	
Ty	A27	DURHUUS et al., <i>All-Optical Wavelength Conversion by Semiconductor Optical Amplifiers</i> , Journal of Lightwave Technology, Vol. 14, No. 6, June 1996; pgs 942-954	
Ty	A28	DURHUUS et al., <i>All Optical Wavelength conversion By SOA's in a Mach-Zehnder Configuration</i> , IEEE Photonics Technology Letters, Vol. 6., No. 1, Jan. 1994, pgs 53-55	
Ty	A29	HARRY J. R. DUTTON, <i>Optical Switching Node with Wavelength Conversion</i> , Understanding Optical Communications, Prentice Hall 1998, Sec. 9.2.7.1-9.2.8.3, pgs. 539-544; 9.2.5.2, pgs 532-533; 5.8.3, pgs. 296-297	
Ty	A30	ELMIRGHANI et al., <i>All-Optical Wavelength Conversion Technologies and Applications in DWDM Networks</i> , IEEE Communications Magazine, WDM Optical Networks: A Reality Check, Mar. 2000 pgs 86-91	
Ty	A31	ERASME et al., <i>All-optical switching and XOR-gating using cross-polarization modulation in a Semiconductor Optical Amplifier</i> , Lasers and Electro-Optics Europe 2000. IEEE Conf. Digest, Sept. 10-15, 2000, Nice France, CTuD3; Tuesday, page 1	
Ty	A32	FJELDE et al., <i>Novel Scheme for Simple Label-Swapping Employing XOR Logic in an Integrated Interferometric Wavelength Converter</i> , IEEE Photonic Technology Letters, Vol. 13, No. 7, July 2001; pgs 750-752	
Ty	A33	FRANZEN et al., <i>Demonstration of 10GHz High Resolution Synchroniser Using FBG with Wavelength Conversion</i> , OFC 2000, Baltimore, MD, USA; Journal Name: Conference on Optical Fiber Communication, Technical Digest Series, IEEE, 372/WM55-1 through 374/WM55-3; pgs 372-374, March 7-10, 2000;	
Ty	A34	JAMES G. FUJIMOTO, <i>Chapter 13: Femtosecond Techniques for the Characterization of Nonlinear and Linear Properties of Waveguide Devices and Studies of All Optical Switching; Section 13.2: Femtosecond Studies of Nonlinear Index in GaAs Waveguide Devices</i> , Waveguide Optoelectronics, Edited by John H. Marsh & Richard M. De La Rue, Kluwer Academic Publishers, Boston; Proceedings of the NATO Advanced Study Institute on Waveguide Optoelectronics, Glasgow Scotland 30, July-10-Aug. 1990, Series E; Applied Science, Vol. 226, Chap. 13, Sec. 13.2	
Ty	A35	GIRARDIN et al., <i>Low-Noise and Very High-Efficiency Four-Wave Mixing in 1.5 mm-Long Semiconductor Optical Amplifiers</i> , IEEE Photonics Technology Letters, Vol. 9, No. 6, June 1997; pgs 746-749	
Ty	A36	HARIHARAN, <i>Digital Techniques</i> , Basics of Interferometry, Academic Press, Inc., Chap. 10, pgs. 95-98	
Ty	A37	HECHT, <i>Wavelength conversion for optical networks</i> , ICD Magazine, Vol. 40, No. 5, May 14, 2001; pgs 43 & 46	
Ty	A38	HENRY, <i>Theory of the Linewidth of Semiconductor Lasers</i> , IEEE Journal of Quantum Electronics, Vol. QE-18, No 2, Feb. 1982; pgs 259-265	
Ty	A39	HESSLER et al., <i>Propagation effects of sub-picosecond gain dynamics in semiconductor optical amplifiers</i> , CLEO 99, IEEE-LEOS, OSA; Conference: May 23-28 1999; Baltimore, MD, USA; Technical Digest- Summaries of papers presented at the Conference on Lasers and Electro-Optics, Postconference edition, Thurs. Morning, May 27, CTthA4, pgs. 349-350	

T_y	A40	PIERRE A. HUMBLET, <i>The Direction of Optical Technology in the Metro Area</i> , Journal Name: Conference on Optical Fiber Communication, Technical Digest Series. [Published Astral Point Communications, Inc.]; OFC 2001, Anaheim, CA, USA; IEEE, Vol. 54, No. 3; pg. WBB1-1 through 3; March 17-22, 2001
T_y	A41	IANNONE et al., <i>Multinometer Wavelength Conversion of 2.5 and 10 Gb/s Optical Channels in an Injection-Locked Semiconductor Laser</i> , IEEE Photonics Technology Letters, Vol. 6, No. 8, Aug. 1994; pgs. 988-991
T_y	A42	IDLER et al., <i>10 Gb/s Wavelength Conversion with Integrated Multi-Quantum-Well-Based 3 port Mach-Zehnder Interferometer</i> , IEEE Photonics Technology Letters, Vol. 8, No. 9, Sept 1996 pgs. 1163-1165
T_y	A43	JEON et al., <i>All-optical wavelength conversion scheme based on 20 Gb/s RZ data</i> , CLEO 2000, Technical Digest. IEEE-LEOS, OSA; May 7-12, 2000; San Francisco, CA, Vol. 39; pgs 278-279; Wed Morning, May 10
T_y	A44	JIANG et al., <i>Sampling Pulses with Semiconductor Optical Amplifiers</i> , IEEE Journal of Quantum Electronics, Vol. 37, No. 1, Jan 2001 pgs 118-126
T_y	A45	JIANJUN et al., <i>The Wavelength Conversion for 2.5Gbit/s, Return-to-Zero Optical Pulse</i> , International Conference on Communication Technology ICCT'98 October 22-24, 1998 Beijing, China, S25-05-1 through 5
T_y	A46	A.E. KELLY, <i>Ultra high-speed wavelength conversion and regeneration using semiconductor optical amplifiers</i> , OFC 2001, Technical Digest; Monday, Mar. 19, 2001, Anaheim Convention Center, Anaheim, CA (MB 1-3)
T_y	A47	A. E. KELLY, <i>Ultra High Speed Wavelength Conversion And Regeneration Using Semiconductor Optical Amplifiers</i> , Whitepaper Presentation at OFC 2001, by Kamelian Ltd, www.Kamelian.com; Paper MB1 pg. 1-3, March 17-22, 2001, Anaheim CA, 24 pg slide presentation
T_y	A48	KIM et al., <i>10Gbit/s based WDM signal transmission over 500 km of NZDSF using semiconductor optical amplifier as the in-line amplifier</i> , Electronics Letters, Feb 1, 2001, Vol. 37, No. 3; pgs 185-187
T_y	A49	JONG-RYEOL KIM, <i>Wavelength Converter</i> , US Patent Application Publication, Pub. No. 2001/0021060A1; Pub. Date Sep 13, 2001
T_y	A50	LACEY et al., <i>Four-Channel Polarization-Insensitive Optically Transparent Wavelength Converter</i> , IEEE Photonics Technology Letters, Vol. 9, No. 10, Oct. 1997; pgs 1355-1357
T_y	A51	LACEY et al., <i>Tunability of Polarization-Insensitive Wavelength Converters Based on Four-Wave Mixing in Semiconductor Optical Amplifiers</i> , Journal of Lightwave Technology, Vol. 16, No. 12; Dec 1998; pgs 2419-2425
T_y	A52	LACEY et al., <i>Gigabit-per-second all-optical 1300-nm to 1550-nm wavelength conversion using cross-phase modulation in a semiconductor optical amplifier</i> , OFC 1996 Technical Digest, pgs 125-126, Paper #WG4, 2:00 p.m. Wed. Afternoon, Room A2
T_y	A53	LAVIGNE et al., <i>Experimental Analysis of SOA-based 2R and 3R optical regeneration for future WDM networks</i> , OFC 1998, Technical Digest, Thurs. afternoon, pgs 324-325
T_y	A54	LEE et al., <i>Theoretical Study of Frequency Chirping and Extinction Ratio of Wavelength-Converted Optical Signals by XGM and XPM Using SOAs</i> , IEEE Journal of Quantum Electronics, Vol. 35, No. 8, Aug. 1999, pgs 1213-1219
T_y	A55	LU et al., <i>Bit-Error-Rate Performance Dependence on Pump and Signal Powers of the Wavelength Converter Based on FWM in Semiconductor Optical Amplifiers</i> , IEEE Photonics Technology Letters, Vol. 12, No. 7, July 2000; pgs 855-857
T_y	A56	MARCENAC et al., <i>Switches and Frequency Converters Based on Cross-Gain Modulation in Semiconductor Optical Amplifiers</i> , IEEE Photonics Technology Letters, Vol. 9, No. 6, June 1997; pgs 749-751
T_y	A57	MARTELLI et al., <i>Pump-Wavelength Dependence of FWM Performance in Semiconductor of Optical Amplifiers</i> , IEEE Photonics Technology Letters, Vol. 9, No. 6, June 1997; pgs 743-745
T_y	A58	MASETTI et al., <i>High Speed, High Capacity ATM Optical Switches for Future Telecommunication Transport Networks</i> , IEEE Journal on Selected Areas in Communications, Vol. 14, No. 5, June 1996; pgs 979-998
T_y	A59	MECOZZI et al., <i>Four-Wave Mixing in Traveling-Wave Semiconductor Amplifiers</i> , IEEE Journal of Quantum Electronics, Vol. 31, No. 4, April 1995; pgs 689-699
T_y	A60	MIKKELSEN, <i>Wavelength conversion of high speed data signals</i> , Electronics Letters, Vol. 29, No 19, Sep 16, 1993; pgs 1716-1718
T_y	A61	MIKKELSEN et al., <i>Wavelength Conversion Devices</i> , OFC 1996, Technical Digest, pgs 121-122, Paper #WG1, 1:00 p.m. Wed. Afternoon Room A2
T_y	A62	MIKKELSEN et al., <i>Polarisation Insensitive Wavelength Conversion of 10 Gbit/s Signals with SOAs in a Michelson Interferometer</i> , Electronic Letters, Vol. 30, No. 3, Feb 1994, pgs. 260-261
T_y	A63	MORK et al., <i>Semiconductor Devices for All-Optical Signal Processing: Just How Fast Can They Go?</i> , 1999 IEEE, 0-7803-5634-9/99; 3:30-4 pm ThCC1; pgs. 900-901
T_y	A64	NORTE et al., <i>All-Optical TDM-to-WDM Data Format Conversion in a Dynamically Reconfigurable WDM Network</i> , IEEE Photonics Technology Letters, Vol. 7, No. 8, Aug. 1995; pgs. 920-922
T_y	A65	NORTE et al., <i>All Optical Data Format Conversions and Reconversions Between the Wavelength and Time Domains for Dynamically Reconfigurable WDM Networks</i> , Journal of Lightwave Technology, Vol. 14, No. 6, June 1996; pgs. 1170-1182
T_y	A66	OBERMANN et al, <i>Amplified Spontaneous Emission Noise of Wavelength Converters Exploiting Cross-Gain and Cross-Phase Modulation in Semiconductor-Laser Amplifiers</i> , Conference Digest. 15th IEEE International Semiconductor Laser Conference; Haifa, Israel. Sponsoring agent: IEEE Lasers & Electro-Opt. Soc, Oct. 13-18, 1996, pgs 29-30

RECEIVED

JUL 23 2002

Technology Center 260

T _y	A67	OBERMANN et al., <i>Theoretical Estimation of the Cascadability of Wavelength Converters Based on Cross-Gain Modulation in Semiconductor Optical Amplifiers</i> , CLEO 1998, Summaries of papers presented at the Conference on Lasers and Electro-Optics; IEEE LEOS, OSA; May 3-8, 1998, San Francisco, CA, Technical Digest Vol. 6, Thurs. Morning, May 7, pgs 388-389	
T _y	A68	OBERMANN et al., <i>Estimation of BER performance and cascadability of wavelength converters based on cross-gain modulation in semiconductor optical amplifiers</i> , IEE Proc. Optoelectron, Vol. 147, No. 2, April 2000; pgs. 133-137	
T _y	A69	OBERMANN et al., <i>Length-optimized semiconductor optical amplifiers for wavelength conversion via cross-gain modulation</i> , CLEO 97, Conference Proceedings, LEOS, Annual Meeting; IEEE, May 18-23, 1997, Baltimore, MD, Monday Morning, May 19, 9:00 a.m. CMF2, Pgs. 24-25	
T _y	A70	PAROLARI et al., <i>Coherent-to-Incoherent Light Conversion for Optical Correlators</i> , Journal of Lightwave Technology, Vol. 18, No. 9, Sept. 2000; pgs. 1284-1288	
T _y	A71	PEGG et al., <i>Noise in Wavelength Conversion by Cross-Gain Modulation in a Semiconductor Optical Amplifier</i> , IEEE Photonics Technology Letters. IEE Colloquium New Developments in Optical Amplifiers; London, UK, Vol. 11, No. 6, June 1999 pgs 724-	
T _y	A72	PEGG et al., <i>The Effect of Amplified Spontaneous Emission on Wavelength Conversion by Cross Gain Modulation in a Semiconductor Optical Amplifier</i> , The Institution of Electrical Engineers (IEE); Nov 2, 1998, IEE Colloquium New Developments in Optical Amplifiers; London UK, Printed and published by IEE, Savoy Place, London WC2R 0BL, UK; pgs 6/1-6/4	
T _y	A73	PETITBON et al., <i>Locking Bandwidth and Relaxation Oscillations of an Injection-Locked Semiconductor Laser</i> , IEEE Journal of Quantum Electronics, Vol. 24, No 2, Feb 1998; pgs. 148-154	
T _y	A74	RAMASWAMI et al., <i>Fiber Gratings</i> , Optical Networks: A Practical Perspective, Academic Press 1998, Section 3.3.3, pgs. 99-101	
T _y	A75	RATOVELOMANANA et al., <i>Monolithic integration of a Michelson all-optical wavelength converter</i> , OFC 1996, Technical Digest, pgs. 124-125, Paper #WG3, 1:45pm Wed. Afternoon, Room A2	
T _y	A76	RYDER et al., <i>Model study in molecular engineering for nonlinear photonic devices: poly (arylene ethynylene) and poly (arylene vinylene) copolymers</i> , Linear and Nonlinear Optics of Organic Materials, Manfred Eich, Mark G. Kuzyk, Editors, Proceedings of SPIE Vol. 4461 (2001), pgs. 246-259	
T _y	A77	SALES et al., <i>Cross-Phase Wavelength Conversion of SCM Signals: Harmonic and Intermodulation Distortion Analysis</i> , IEEE Photonics Technology Letters, Vol. 13, No. 7, July 2001 Pgs. 723-725	
T _y	A78	SCHILLING et al., <i>10 Gbit/s Monolithic MQW-based Wavelength Converter in Michelson Interferometer Configuration</i> , OFC 1996, Technical Digest, Paper #WG2, 1:30 p.m. Wed. Afternoon Room A2, pgs 122-124	
T _y	A79	JEFF SCHOEWARD, <i>Thermo-optic PLCs offer advantages in switching niches</i> , Lynx Photonic Networks Sales Literature WDM Solutions, Reprinted with revisions, from the May 2001 Editions of WDM Solutions	
T _y	A80	SET et al., <i>Performance Enhancement of Ultra-Fast Wavelength Converters Based on Four Wave Mixing in Semiconductor Optical Amplifiers</i> , 25th European Conference on Optical Communication, ECOC '99, Vol. 2; pgs 166-167	
T _y	A81	SETTERMBRE et al., <i>Cascaded Optical Communication Systems with In-Line Semiconductor Optical Amplifiers</i> , Journal of Lightwave Technology, Vol. 15, No. 6, June 1997; pgs 962-967	
T _y	A82	SHEN et al., <i>Single to Multi Wavelength Conversion Using Amplified Spontaneous Emission of Semiconductor Optical Amplifier</i> , OFC 2001, Technical Digest, Monday Mar. 19, 2001 Anaheim Convention Center, Anaheim, CA (ME 1-3)	
T _y	A83	SHIEH et al., <i>Polarization-independent and contrast-ratio-enhancing module for all-optical wavelength shifting using SOA's</i> , OFC 1996, Technical Digest, Paper #WG5, 2:15 p.m. Wed. Afternoon Room A2, pgs 126-128	
T _y	A84	SOTOBAYASHI et al., <i>Observation of Phase Conservation in a Pulse Sequence at 10 Gb/s in a Semiconductor Optical Amplifier Wavelength Converter by Four-Wave Mixing</i> , IEEE Photonics Technology Letters, Vol 11, No. 1 Jan 1999; pgs 45-47	
T _y	A85	KRISTIAN E. STUBKJAER, <i>Semiconductor Optical Amplifier-Based All Optical Gates for High-Speed Optical Processing</i> , IEEE Journal on Selected Topics in Quantum Electronics, Vol 6, No 6, Nov/Dec. 2000 pgs 1428-1435	
T _y	A86	STUBKJAER et al., <i>Recent Advances in Semiconductor Optical Amplifiers and Their Applications</i> , Journal: Fourth International Conference on Indium Phosphide and Related Materials, IEEE Conference; April 21-24, 1992; Newport Rhode Island, USA, WE-1; pgs 242-245	
T _y	A87	STUBKJAER et al., <i>Components for Optical ATM</i> , IEE Electronics Division Colloquium on Optics and ATM Conference London, UK, IEE Colloquium Digest N031 1995. Feb 10, 1995 pgs 4/1-4/6	
T _y	A88	SUMMERFIELD et al., <i>Noise Figure and Conversion Efficiency of Four-Wave Mixing in Semiconductor Optical Amplifiers</i> , IEEE Electronic Letters, May 19, 1995	
T _y	A89	DIMITRIS SYVRIDIS, <i>All Optical Wavelength Converters Based on Semiconductor Optical Amplifiers</i> , IEEE Electron Devices Society, 2000 International Semiconductor Conference 23rd edition, CAS 2000 Proceedings, Sinaia Romania, Vol. 1 pgs 65-71 Oct 10-14, 2000	
T _y	A90	TANG et al., <i>Enhanced Performance of Polarization-Independent Four-Wave Mixing in Polarization-Sensitive Semiconductor Optical Amplifiers</i> , IEEE Photonics Technology Letters, Vol. 13, No. 5, May 2001, pgs 496-498	
T _y	A91	TIEMEIJER et al., <i>High-Gain 1310-nm Reflective Semiconductor Optical Amplifiers with Low-Gain Uncertainty</i> , IEEE Photonics Technology Letters, Vol. 9, No. 1, Jan 1997, pgs 37-39	

RECEIVED

JUL 21 2002

Technology Center 2600

7	A92	TROMBORG et al., <i>Stability Analysis and the Route to Chaos for Laser Diodes with Optical Feedback</i> , IEEE Photonics Technology Letters, Vol. 2, No. 8 Aug. 1990; pgs 549-552	
7	A93	TROMBORG et al., <i>Nonlinear Injection Locking Dynamics and the Onset of Coherence Collapse in External Cavity Lasers</i> , IEEE Journal of Quantum Electronics, Vol. 26, No. 4, April 1990; pgs 642-655	
7	A94	VAUGHN et al., <i>Simultaneous all-optical wavelength conversion of baseband payload and removal/replacement of subcarrier multiplexed headers</i> , OFC 1996, Technical Digest, Paper #WG6, 2:30 p.m. Wed. Afternoon Rm A2, pgs 128-129	
7	A95	VODJDANI et al., <i>Integrated Optics Interferometric Devices with Semiconductor Optical Amplifiers for Wavelength Conversion</i> , Lasers and Electro-Optics Society Annual Meeting, Article: Proceedings of the 1995 8th Annual Mtg of IEEE Lasers and Electro-Optics Society, Part 2 (of 2). San Francisco, CA 2:15-2:45 p.m., Vol 2, 30-2 Nov 1995, pgs 243-244	
7	A96	JOE MARTIN WIESENFELD, <i>Wavelength Conversion</i> , CLEO 1997, Conference Proceedings, IEEE-LEOS, May 19 1997, Baltimore MD, Mon. Morning CMF 8-10 a.m. Rm 327/329 pg 24	
7	A97	WIESENFELD et al, <i>Wavelength Conversion</i> , OFC 1996 Technical Digest, San Jose CA, USA Vol. 2, Feb 25-Mar 1, 1996 pg 89	
7	A98	WOLFSON, <i>Wavelength Conversion uses SOA-based interferometric devices</i> , Laser Focus World, (Newsbreaks) www.optoelectronics world.com, March 2001, pg 9	
7	A99	XINLIANG et al, <i>In-phase XGM wavelength conversion in semiconductor optical amplifier</i> , CLEO 2000 Technical Digest, Pacific Rim Conference on Lasers and Electro-Optics, IEEE, LEOS, OSA, May 7-12, 2000, San Francisco, CA Tues. Afternoon, May 9, pgs 153-154	
7	A100	XU et al., <i>1.5nm band efficient broadband wavelength conversion by difference frequency generation in a periodically domain-inverted LiNbO3 channel waveguide</i> Applied Physics Letters, American Institute of Physics, Vol. 63 (26) Dec. 27, 1993	
7	A101	XU et al., <i>A nonsymmetrical Mach-Zehnder Interferometer for Suppressing Pattern Effect in SOAs</i> , OFC 2001; Technical Digest, Mar. 17-22 2001; Anaheim Convention Center, Anaheim, CA (MB6, pgs 1-4)	
7	A102	YOO et al, <i>Wavelength conversion by difference frequency generation in AlGaAs waveguides with periodic domain inversion achieved by wafer bonding</i> , Applied Physics Letters, 1996 American Institute of Physics; 68 (19), May 6, 1996; pgs 2609-2611	
7	A103	YOO et al, <i>Transparent wavelength conversion by difference frequency generation in AlGaAs waveguides</i> , OFC 1996, Technical Digest, Paper #WG7, 2:45 pm Wed. Afternoon Rm A2 pgs. 129-131	
7	A104	YU et al., <i>Optimization of the Frequency Response of a Semiconductor Optical Amplifier Wavelength Converter Using a Fiber Bragg Grating</i> , Journal of Lightwave Technology, Vol. 17. No. 2, Feb. 1999; pgs 308-315	
7	A105	YU et al., <i>Data Regeneration Using an SOA/Fiber grating wavelength converter</i> , CLEO 2000 Technical Digest, Pacific Rim Conference: Lasers and Electro-Optics, IEEE-LEOS, OSA; May 7-12, 2000, San Francisco CA, Vol. 39, pp 135-136; Monday afternoon, May 8, CMY6	
7	A106	ZHOU et al., <i>Four-Wave Mixing Wavelength Conversion Efficiency in Semiconductor Traveling-Wave Amplifiers Measured to 65nm of Wavelength Shift</i> , IEEE Photonics Technology Letters, Vol. 6, No. 8, August 1994; pg. 984-987	
7	A107	ZHOU et al, <i>Efficiency of Broadband Four-Wave Mixing Wavelength Conversion Using Semiconductor Traveling-Wave Amplifiers</i> , IEEE Photonic Technology Letters, Vol. 6, No. 1, Jan 1994, pgs 50-52	
7		<i>Wavelength Converter</i> , Jong-Ryeol Kim, US Patent Application Publication, Pub. No. 2001/0021060A1; Pub. Date Sep 13, 2001	

RECEIVED

JUL 29 2002

Technology Center 2600

Examiner Signature	<i>Dr. J. Kim</i>	Date Considered	5/28/2004
--------------------	-------------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.